

# Water Detectives Unsolved Case

## Activity Worksheet

**STEP 1:** Read "Water Detectives: Unsolved Case # 1426"

**STEP 2:** Write down the facts of the case:

- A. Original amount of water in the measuring cup \_\_\_\_\_.
- B. Amount of water in the measuring cup now \_\_\_\_\_.

**STEP 3:** Write down where Johnny Bash said his brother might be.

- If Joe has been gone for less than a day, he is probably  
\_\_\_\_\_.
- If he has been gone for fewer than 4 days, he is probably  
\_\_\_\_\_.
- If he has been gone for more than 4 days but fewer than 8, he is probably  
\_\_\_\_\_.
- If he has been gone for more than 8 days but fewer than 4 weeks, he is probably  
\_\_\_\_\_.
- If he has been gone for more than 4 weeks but fewer than 2 months, he is probably  
\_\_\_\_\_.
- If he has been gone longer than two months  
\_\_\_\_\_.

**STEP 4:** Develop a hypothesis: what do you think happened?

- 1. How long do you think the water was left in the window?  
\_\_\_\_\_.
- 2. According to your answer to number 1, where do you think Joe Bash went?  
\_\_\_\_\_.

**STEP 5:** Perform an experiment to estimate the length of time it took for the water to evaporate.

Supplies: Clear measuring cup and water

Directions:

- 1. Write down today's date. \_\_\_\_\_
- 2. Fill a measuring cup to the one cup line.
- 3. Place the cup on a sunny window sill.
- 4. Record how many days it takes for the water in the measuring cup to reach the 3/4 cup line.

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**STEP 6:** Write your conclusions.

1. It took approximately \_\_\_\_\_ days for the water to evaporate to the 3/4 line.
2. Where should Johnny begin to look for Joe? \_\_\_\_\_.

**STEP 7:** Make notes about your observations in your water detective's notebook:

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### Measurement Log

Day 1:	_____	Date:	_____
Day 2:	_____	Date:	_____
Day 3:	_____	Date:	_____
Day 4:	_____	Date:	_____
Day 5:	_____	Date:	_____
Day 6:	_____	Date:	_____
Day 7:	_____	Date:	_____